Artham
Resource Material

For Revised Syllabus Session 2024-25

NCERT Solutions

MATHS

Chapter 1 : Rational Numbers

Class 8

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Chapter 1

Rational Numbers

Exercise 1.1

Question 1:

Name the property under multiplication used in each of the following:

(i) $\frac{-4}{5}\times 1 = 1\times\frac{-4}{5} = -\frac{4}{5}$

(ii) $-\frac{13}{17}\times\frac{-2}{7} = \frac{-2}{7}\times\frac{-13}{17}$

(iii) $\frac{-19}{29}\times\frac{29}{-19} = 1$

Answer:

(i) $-\frac{4}{5}\times 1 = 1\times -\frac{4}{5} = -\frac{4}{5}$

1 is the multiplicative identity.

(ii) Commutativity

(iii) Multiplicative inverse

Question 7:

Tell what property allows you to compute $\frac{1}{3}\times\left(6\times\frac{4}{3}\right)$ as $\left(\frac{1}{3}\times 6\right)\times\frac{4}{3}$.

Answer:

Associativity

Question 2:

Is $\frac{8}{9}$ the multiplicative inverse of $-1\frac{1}{8}$? Why or why not?

Answer:

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If it is the multiplicative inverse, then the product should be 1.

However, here, the product is not 1 as

$$\frac{8}{9}\times\left(-1\frac{1}{8}\right)=\frac{8}{9}\times\left(-\frac{9}{8}\right)=-1\neq 1$$

Question 3:

The product of two rational numbers is always a ___.

Answer:

Rational number.

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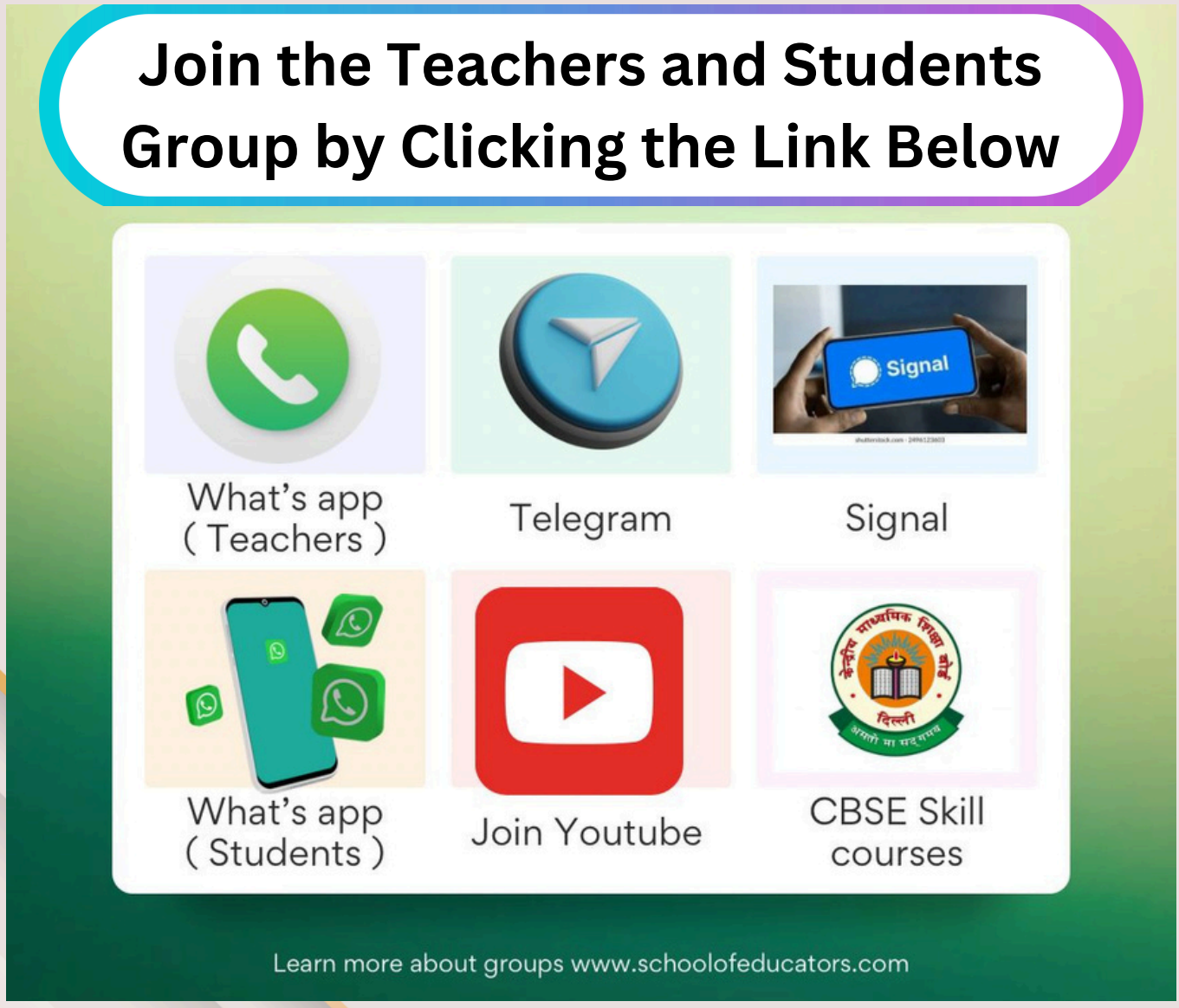

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2. Help your fellow educators by answering their queries.
3. Watch and engage with shared videos in the group.
4. Distribute WhatsApp group resources among your students.
5. Encourage your colleagues to join these groups.

Additional notes:

1. Avoid posting messages between 9 PM and 7 AM.
2. After sharing resources with students, consider deleting outdated data if necessary.
3. It's a NO Nuisance groups, single nuisance and you will be removed.

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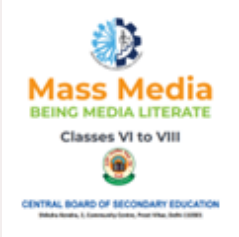
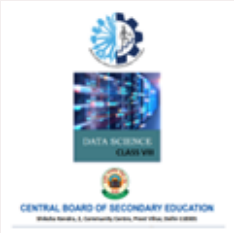


Mass Media - Being Media Literate

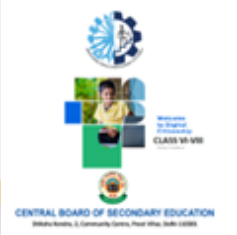
Travel & Tourism

Coding



Data Science (Class VIII only)

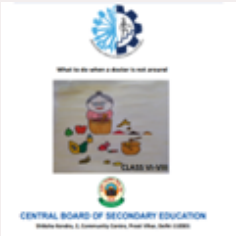
Augmented Reality / Virtual Reality



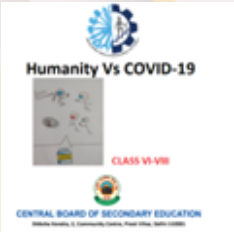
Digital Citizenship

Life Cycle of Medicine & Vaccine

Things you should know about keeping Medicines at home



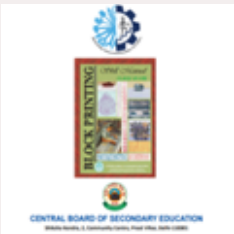
What to do when Doctor is not around



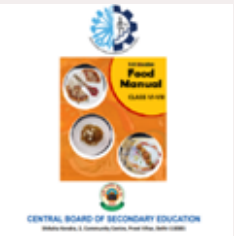
Humanity & Covid-19

Blue Pottery

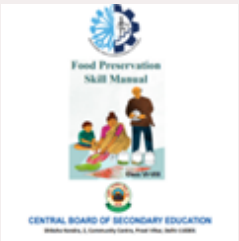
Pottery



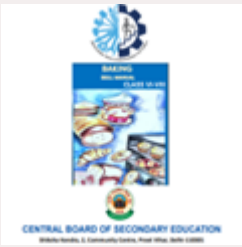
Block Printing



Food



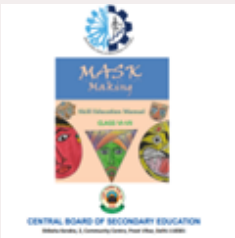
Food Preservation



Baking

Herbal Heritage

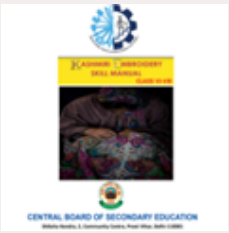
Khadi



Mask Making

Mass Media

Making of a Graphic Novel

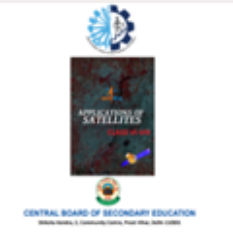


Kashmiri Embroidery

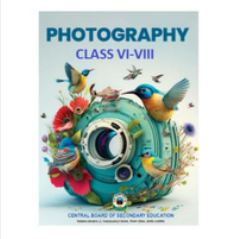
Embroidery

Rockets

Satellites



Application of Satellites

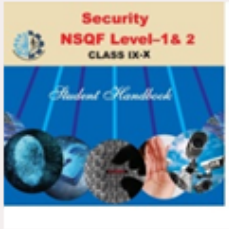


Photography

SKILL SUBJECTS AT SECONDARY LEVEL (CLASSES IX – X)

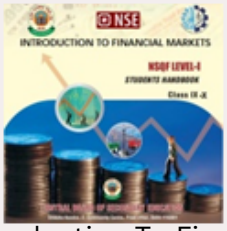
Retail

Information Technology



Security

Automotive



Introduction To Financial Markets

Introduction To Tourism

Beauty & Wellness

Agriculture

Food Production

Front Office Operations

Banking & Insurance

Marketing & Sales

Health Care

Apparel

Multi Media

Multi Skill Foundation Course

Artificial Intelligence

Physical Activity Trainer

Data Science

Electronics & Hardware (NEW)

Foundation Skills For Sciences (Pharmaceutical & Biotechnology)(NEW)

Design Thinking & Innovation (NEW)

SKILL SUBJECTS AT SR. SEC. LEVEL (CLASSES XI – XII)

Retail

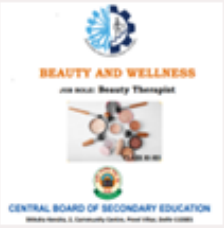
InformationTechnology

Web Application

Automotive

Financial Markets Management

Tourism



Beauty & Wellness

Agriculture

Food Production

Front Office Operations

Banking

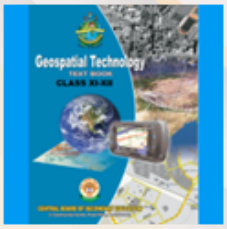
Marketing

Health Care

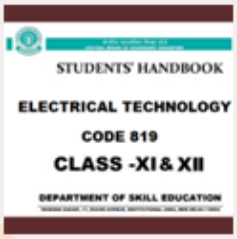
Insurance

Horticulture

Typography & Comp. Application

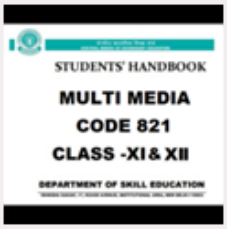


Geospatial Technology



Electrical Technology

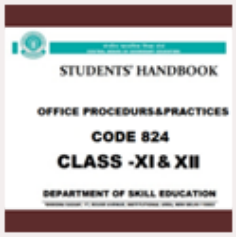
Electronic Technology



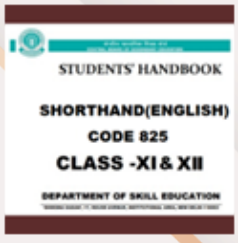
Multi-Media

Taxation

Cost Accounting



Office Procedures & Practices



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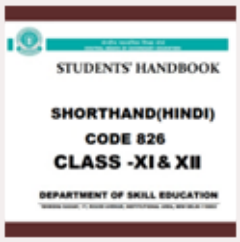
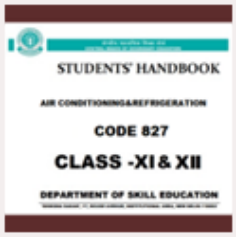
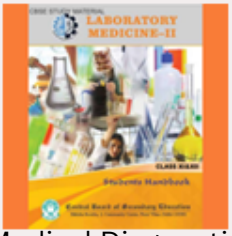


Shorthand (Hindi)



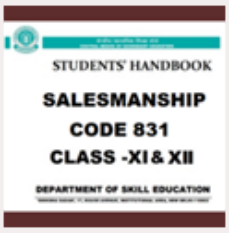
Air-Conditioning & Refrigeration



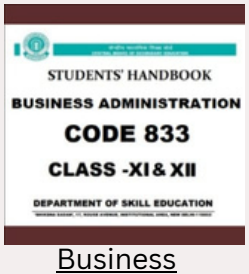
Medical Diagnostics

Textile Design

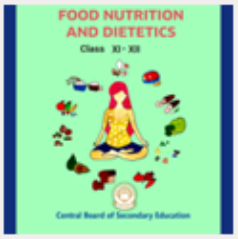
Design



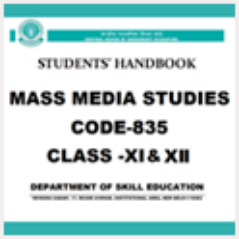
Salesmanship



Business Administration



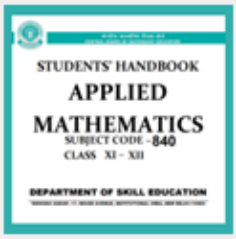
Food Nutrition & Dietetics



Mass Media Studies

Library & Information Science

Fashion Studies



Applied Mathematics

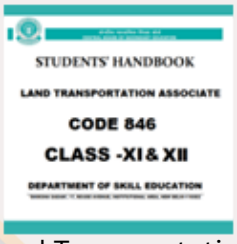
Yoga

Early Childhood Care & Education

Artificial Intelligence

Data Science

Physical Activity Trainer(new)



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